

Security Crystal Board

user's manual

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Installation

System Requirement

	Hybrid 32 CH	SCB-3000	SCB-2000	SCB-1000
CPU	Intel Pentium D 930	Intel P4 2.8 GHz	Intel P4 2.4 GHz	Celeron 2.0 GHz
RAM	1 GB	512 MB	512 MB	256 MB
Mother-board	Intel 845 or 865 chip, Intel Chipset recommended			
Display	ATI Radeon 9200, nVIDIA GeForce FX-5200, Intel 845G/865G, or above (ATI recommended)			
Hard Disk	80 GB or above			
OS	MS Windows 2000 / XP			

Software Installation

Step 1: Insert the Software CD.

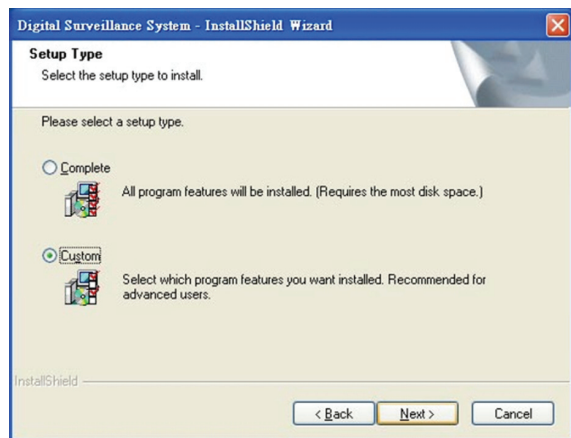
Step 2: Run dxdiag.exe from start menu 'Start-> Run' to check your DirectX version. If the installed version is less than 9.0, install DirectX 9.0 from the CD-ROM directx9/ directory.

Step 3: Run Setup.exe from the CD-ROM root directory and follow the onscreen instruction to complete installation.

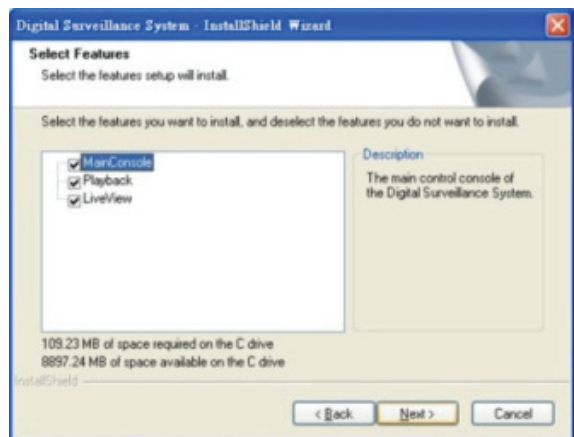
Installation

Custom Setup Type:

You may install the system to the directory of your preference and choose which feature(s) you want to install to the PC.



Hint: You may, for instance, install only Playback and/or LiveView on the PC at home or other remote site from which you do not install the camera but are going to watch them remotely.



Install IP camera(s)

Step 1: Set up the IP camera(s) referring to the instruction provided by the manufacturer.

Step 2: Check the network between the IP camera(s) and the system.

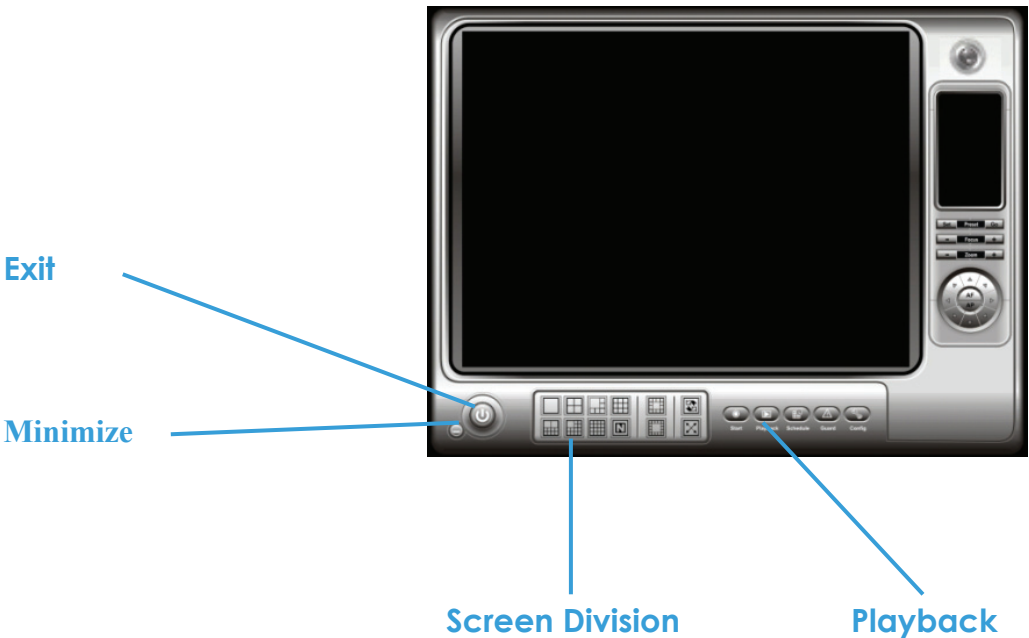
Step 3: Add the IP camera(s) to the system. See details on page 30.

Main Console



The main operation system. To activate, schedule recording, setup smart guard and configure system setting.

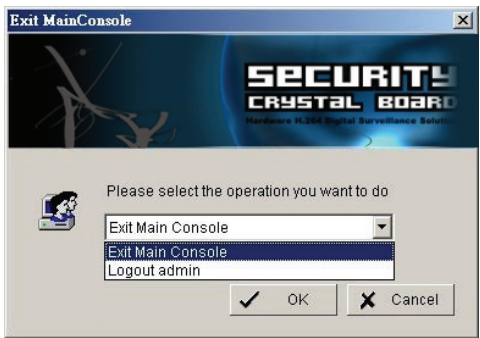
Main Console



Exit: Shut down SCB Video Surveillance System or log out current user.

Minimize: Minimize the Main Console.

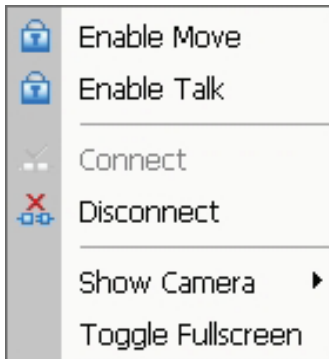
Camera Number / Camera Name: Numbers shown as the port connected; rename the cameras in Config > General Setting.



Screen Division: Allocate the sub-screen displays of cameras by clicking on the icon of desired layout. Quick switch to single camera display by double click the particular sub-screen. Double click the single camera display again to regain previous screen division layout.

Camera Selection: Choose an area on the display screen and then click on the number of the camera to put it on the chosen area.

Main Console On Screen Menu



Right click on the camera screen and get the On Screen Menu from which you can **Enable Move, Enable Talk**, and **Connect / Disconnect** the camera.

Note: You can only work on current camera after clicking **Enable Move or Enable Talk**. With a PTZ camera locked, you may control it by clicking the screen. You can also talk to a camera with the two-way audio function.

Show Camera: You can also put another camera on the particular screen by selecting a camera from the menu.

Toggle Fullscreen: Click and switch to full screen display.



Playback

Playback: Click the icon to get Playback Console. You can watch recorded video, search, adjust image from records data, save video/pictures and print images, check log in information, event records and setup recording function configuration. See Playback on page 9 for detail.

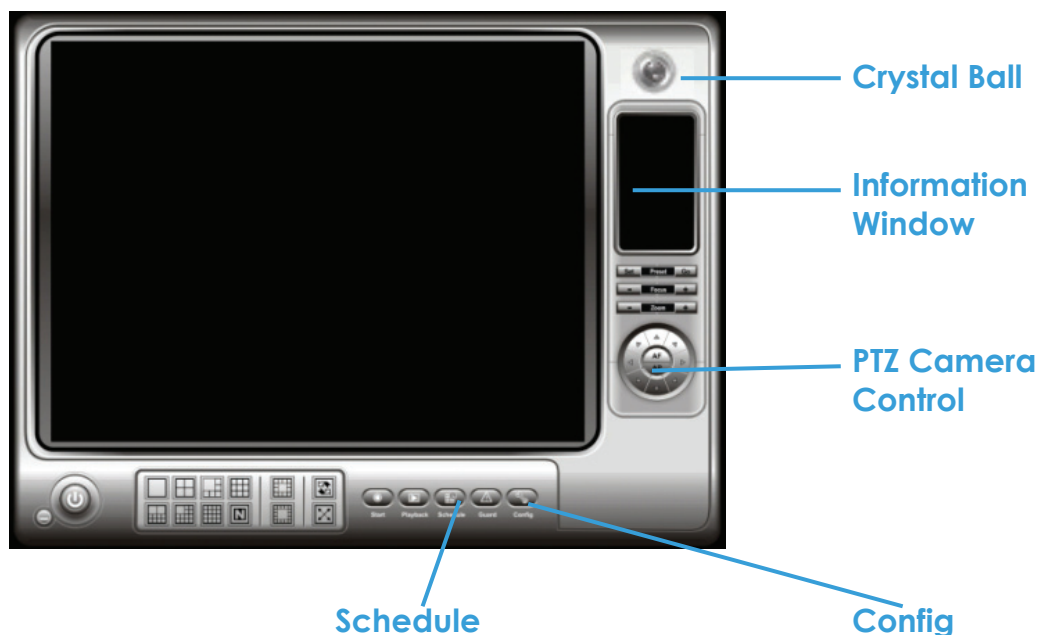
Main Console



Start: Click on the pull down menu to Start/Stop Schedule System, or click on Start/Stop Monitor All to activate/ deactivate all the functions above. Stop alarm by clicking Cancel All Events. You can also cancel all events by click the **Crystal Ball**, see page 8.

Note: The system will consider everything in the screen is normal when you click Start to activate monitor function. Therefore, for example, if you want to detect Missing Object, be sure the object that you want to protect is in its position when you click Start button.

Main Console



Schedule: Schedule recording time table and setup recorder configuration. See Schedule on page 18 for detail.

Config: System settings, Backup and Counting Application.

PTZ Camera Control: Control the movement of installed PTZ camera.
System Info: Day, Time, HD space information.

Information Window: Shows the system information including date, time, free HD space, CPU temperature, fan speed and customized text. You can customize the setting of Information Window in Config > General Setting > General.

Crystal Ball: Indicates the working status of the system. In blue color rolling when system is recording; in red when event detected. When the **Crystal Ball** is red, click it and you can cancel event(s).

Playback

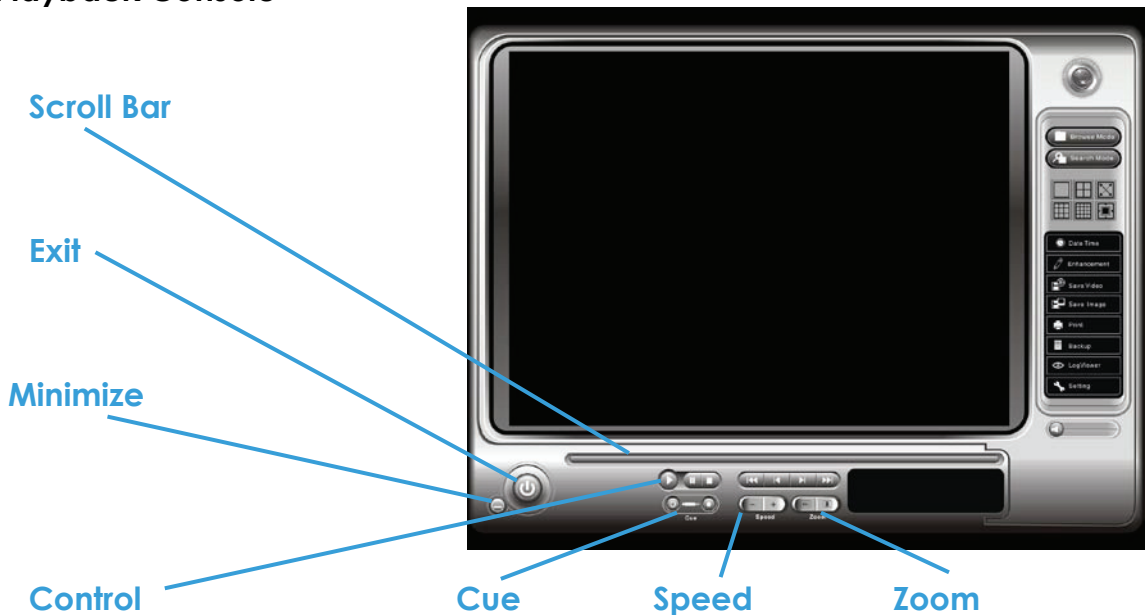
Playback



Watch the recorded video, view recorded system information.

Playback

Playback Console



Scroll Bar: Quick search on the video, drag it to where you want to review.

Exit: Turn off the Playback Console.

Minimize: Minimizes the playback Console window.

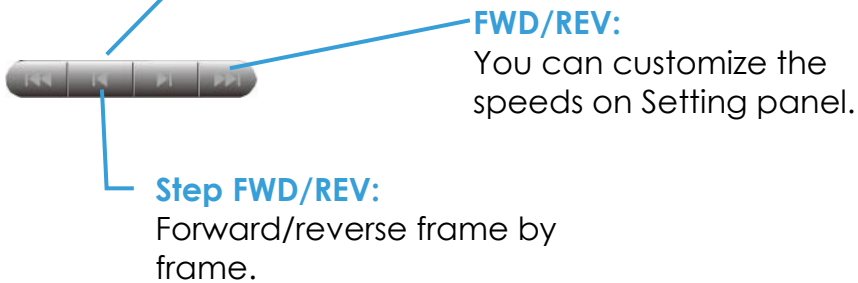
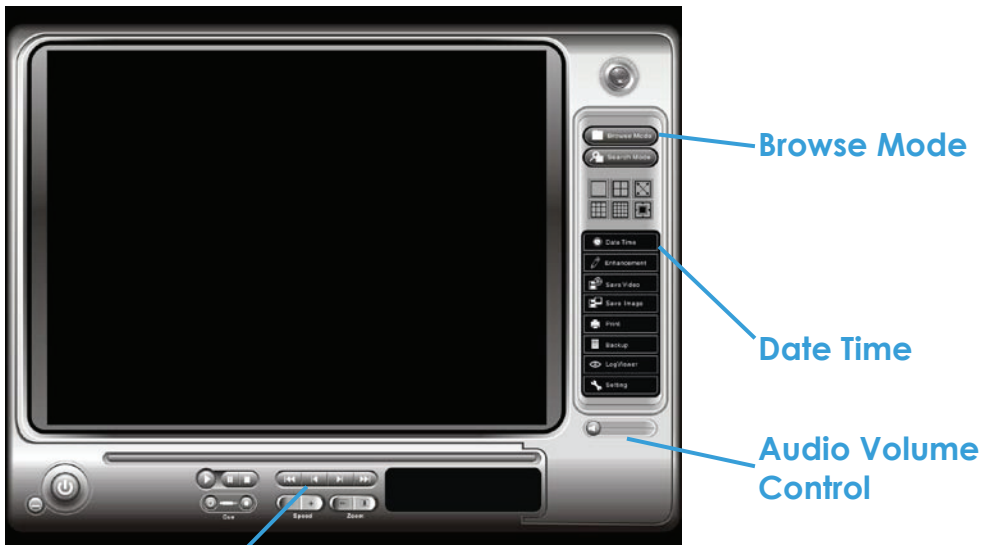
Control: Play, pause and stop the video.

Cue: Set up the Cue In and Cue Out points of the clip you want to save as a video clip or a back up file with all the information recorded (including log info, events reported and so.) Cue In and Cue Out time will show on the Playback Information display once they are set.

Speed: Controls the play back speed, speed up and down.

Zoom: Zoom in and zoom out. You can get a close up view of the recorded video and move to the spot you want to view by dragging the screen.

Playback Playback Console



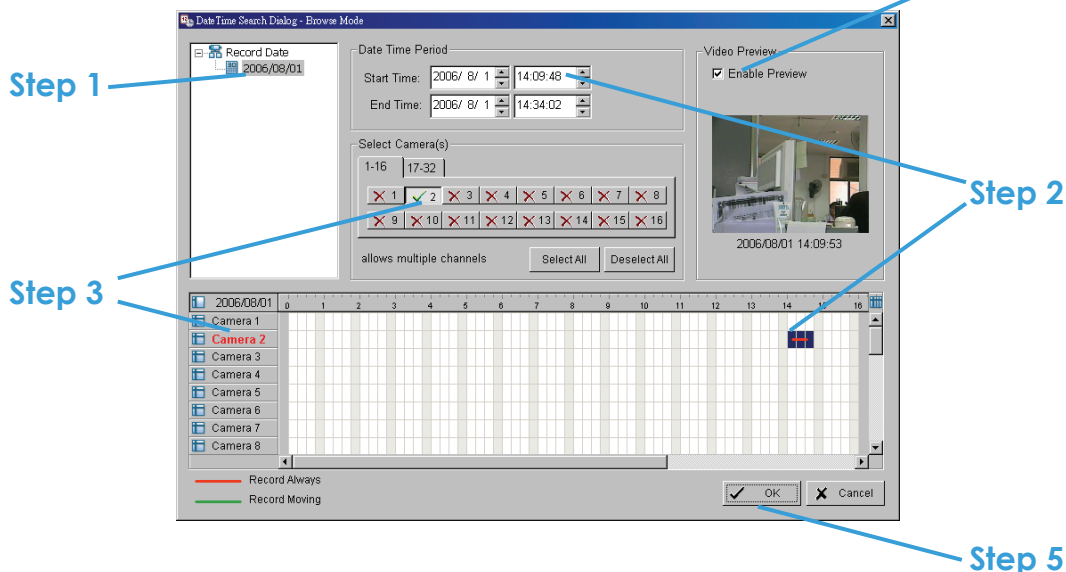
Browse Mode: Play the recorded video.

Audio Volume Control: Adjust the sound level.

Date Time: By clicking on Date Time button, you can withdraw the video record that you want to review. As you click on the Date Time button, a control panel will show up. Follow the instruction on the next page to withdraw the record.

Playback

Day-Time Panel



To withdraw the record:

Step 1: From the window at the top left of the Day-Time Panel, select the date you want to check, and you will see red/green lines show on the time table implying available recorded video.

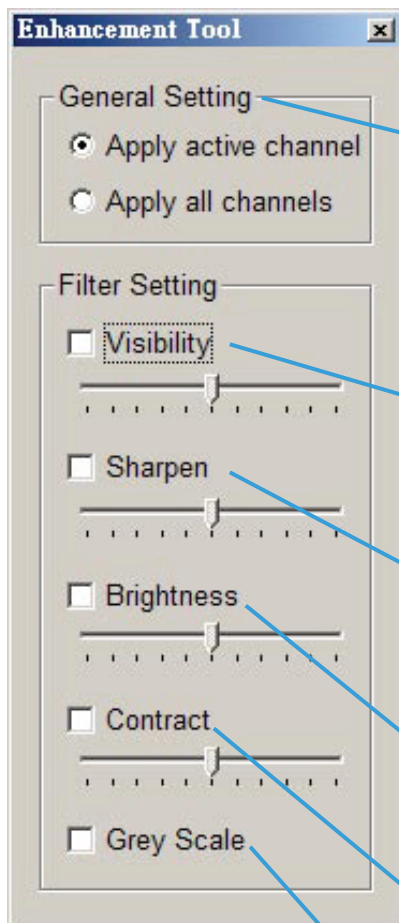
Step 2: You can select the video clip you wan to review by left-clicking and dragging to highlight the time period. Besides using the time-table, you may indicate the time period of video that you want to see by using the Start Time and End Time in Date Time Period section.

Step 3: In Select Camera(s) section, select the camera(s)/channel(s) from which you want to see the video. You can select all the cameras by clicking Select All button.

Step 4: Check the box of Enable Preview to get the preview of the video you select.

Step 5: Click OK when you are satisfied with the setting.

Playback Enhancement



General Setting: Check the circle and chose whether you want to apply the setting to all the channels or only to those currently shown on the screen.

Filter Setting

Visibility: Check the box and adjust the gamma value of the image, which means, you may enhance the image and make it cleaner.

Sharpen: Check the box to activate the function. Move the control bar to the right to sharpen the image, to the left to soften it.

Brightness: Check the box to activate the function. Move the control bar to the right to make the image brighter.

Contract: Check the box to activate the function. Move the control bar to the right to increase contrast.

Grey Scale: Check the box to show the record in grey scale mode, which is, in black and white.

Playback

Save Video / Save Image

Save Video

Step 1: Choose the camera display you want to save as a video clip.

Step 2: Set up the Cue In and Cue Out points, the cue in and cue out time will show up on the display.

Step 3: Click Save Video icon, choose the folder where you want to save the file, enter the file name and click SAVE. You may export (save) the record with both audio and video or you can explore the video only.

Step 4: Choose the compression format and then save the video.

Save Image:

Step 1: Chose the camera display from which you want to save pictures.

Step 2: Click Save Image button when the image you want is on the screen. You may click Pause to freeze the video, use Step Forward/ Step Backward function to find the picture you want to save.

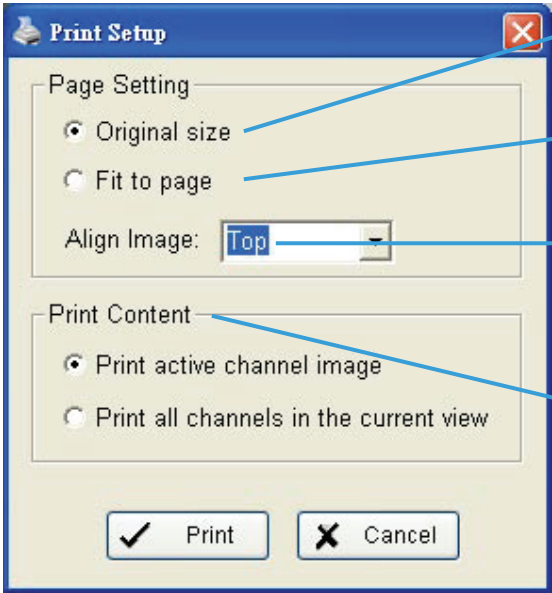
Step 3: Choose the folder and the format of image (BMP, JPEG, GIF, PNG or TIFF) you prefer and then click save.

Note: You may pre-set a folder and format that you want to save the images (see page 17), thus skip **Step 3**.

Playback

Print / Backup

Print:



Print in original size

Fit the page

Align: Top, Center, or Bottom

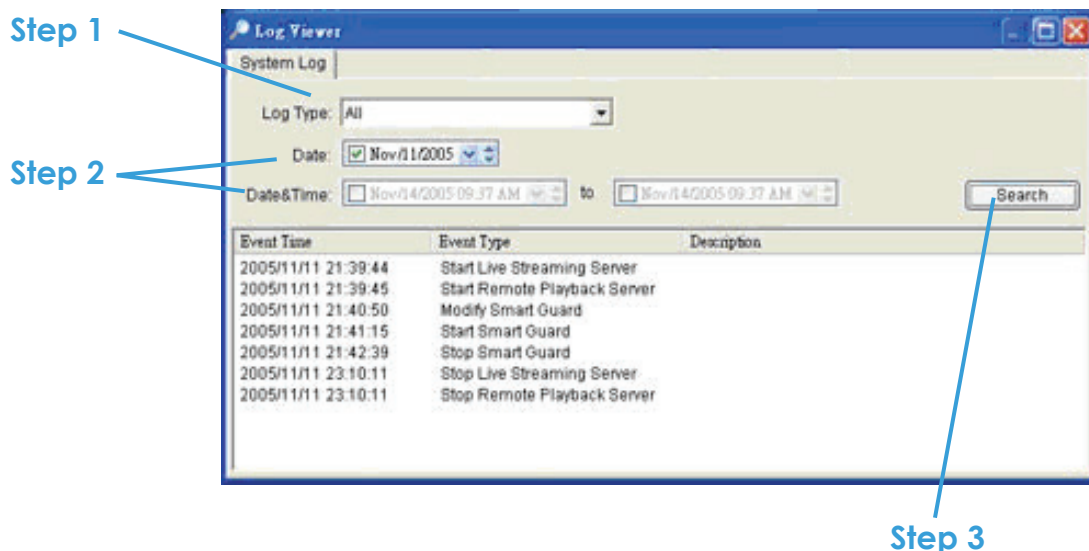
Print Content: Print the image from selected channel or all the channels shown on the screen.

Backup:

Different from Save Video, the Backup function saves everything from the Playback panel, including log information.

You can open the Backup file on any PC with Windows OS and have the full function Playback panel on it and take the backup file to elsewhere to work on the recorded video.

Playback Log Viewer



System Log: You can choose the **Log Type** from the pull-down menu, including:

Console Startup, Console Shutdown, User Login, User Logout, Start Schedule, Stop Schedule, Execute Recycle, Execute Backup, Enable Channel, Disable Channel, Start Smart Guard.

Step1: Choose the type of event you want to check or select “All” on the pull-down menu for all types of events.

Step 2: You can either view the events on a particular date or during a given time period. To search and view Unusual Event on a particular date, check the box right next to **Date** and indicate the date you want to check. You may also point out two different time points and search for Unusual Event between them. Mark the box in the **Date & Time** column and then enter the date and time.

Step 3: Click **Search**.

Playback Setting

Database Machine:

Choose from which location you are going to withdraw the record, from the PC you are working with or to access a database via the Internet.

Play:

Play when open: Check the box and set the system to play the video clip every time when you withdraw it from the database.

Next interval: Set the interval with which the video goes forward when you click Next icon on the control panel.

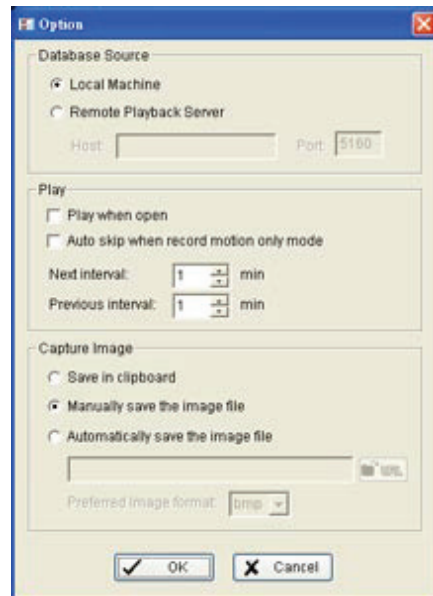
Previous interval: Set the interval with which the video goes backward when you click Previous icon on the control panel.

Capture Image: Setup how you want to save image.

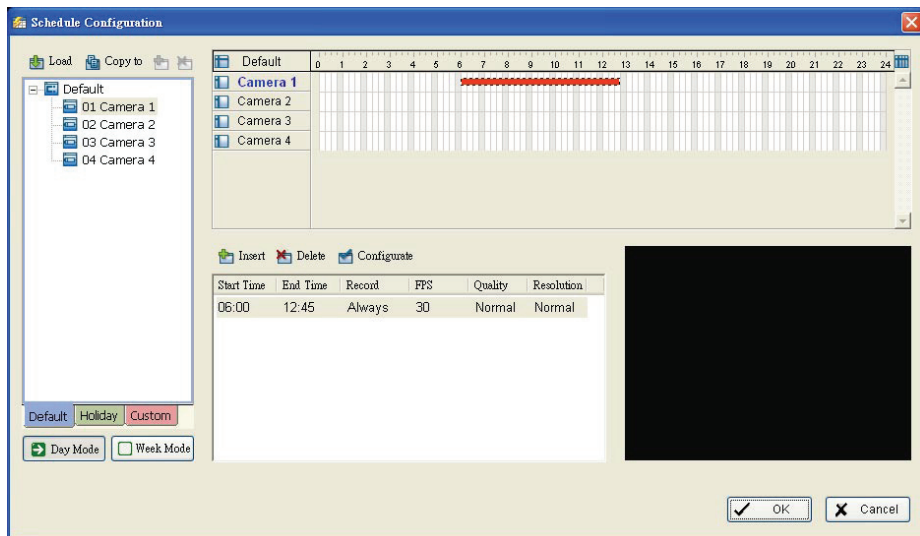
Save in clipboard: The image will be saved in the clipboard and can be pasted on other application software.

Manually save the image file: You can manually select where you want to save the image, name the saved file, and choose the format you want to save the image.

Automatically save the image file: By giving the system a path/URL and the image format, it will automatically save the image accordingly every time you click Save Image button.

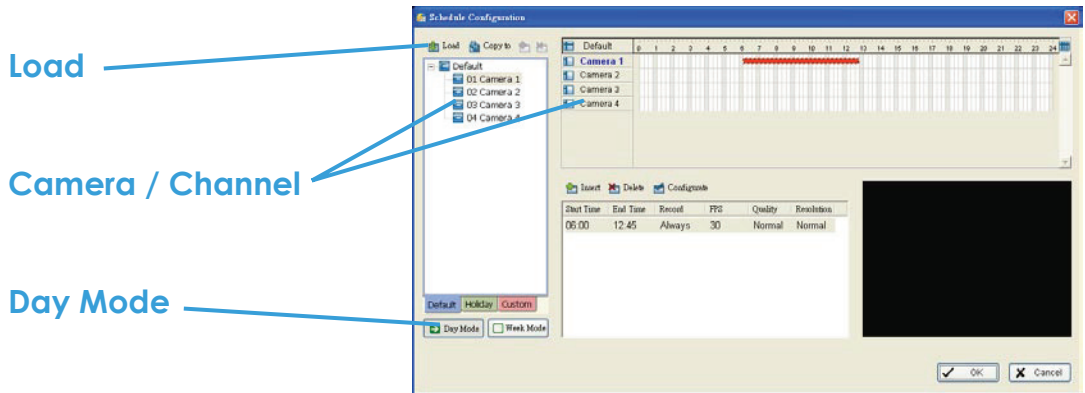


Schedule



Click on Schedule icon on Main Console and get the Schedule configuration panel to setup the time schedule for video recording.

Schedule



Day Mode

Schedule the cameras on a daily basis, which means that the recorder will be on and off, at the same time every day, according to the same schedule you setup.

To setup the time schedule for each camera, you may

1. **Load** the preset Modes or
2. **Insert** a new schedule manually.

To load preset Modes

Click on the **Load** icon and get a pull-down menu.

Regular Mode: Record video 24 hours a day with the setting of 30 FPS (frames per second), Normal video quality and Normal resolution.

Office Mode: Record video from 8 am to 8 pm (08:00 – 20:00, shown as a red bar on Schedule Configuration panel) with 30 FPS, Normal video quality and Normal resolution.

Shop Mode: Record video from 10 am to 10 pm (10:00 – 22:00) with 30 FPS, Normal video quality and Normal resolution.

High Security Mode: Record video 24 hours a day with the setting of 30 FPS, Highest video quality and High resolution.

Disk Saving Mode: The system will start recording only when a motion on the screen is detected, 24 hours a day (shown as a green bar on Schedule Configuration panel), with the setting of 30 FPS, Normal quality and Normal resolution. You can adjust the sensitivity, interval and detection area of motion detection in schedule Configure.

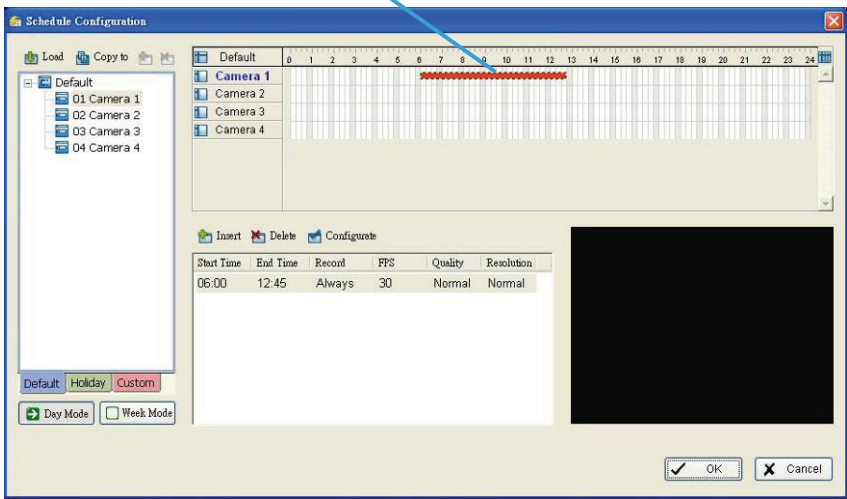
Schedule

Minor Mode: The system will start recording only when a motion on the screen is detected, 24 hours a day (shown as a green bar on Schedule Configuration panel), with the setting of 15 FPS, Low quality and Low resolution. You can adjust the sensitivity, interval and detection area of motion detection in schedule Configure.

Adjust the scheduled setting: Even when you have setup the Modes through the Load function, you can still manually make changes of it.

Option 1: Move the cursor to the **Time Bar** to change the length of it or move the bar sideways to change the start and stop points.

Time Bar

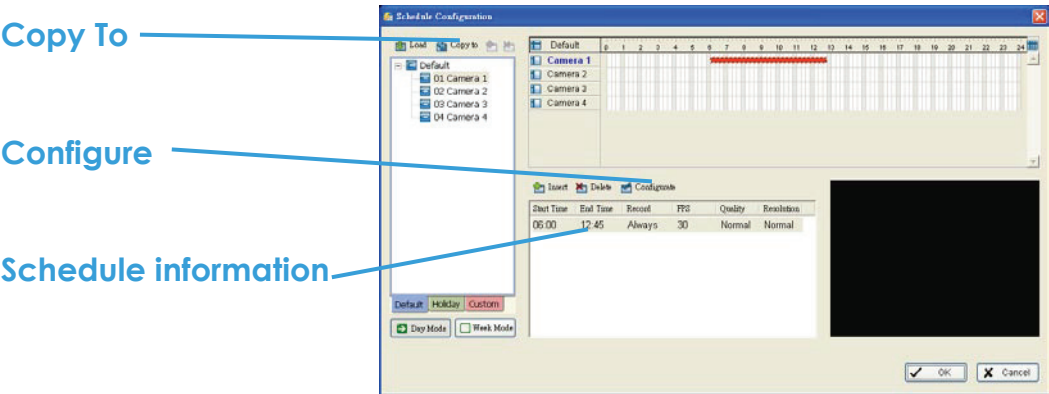


Schedule

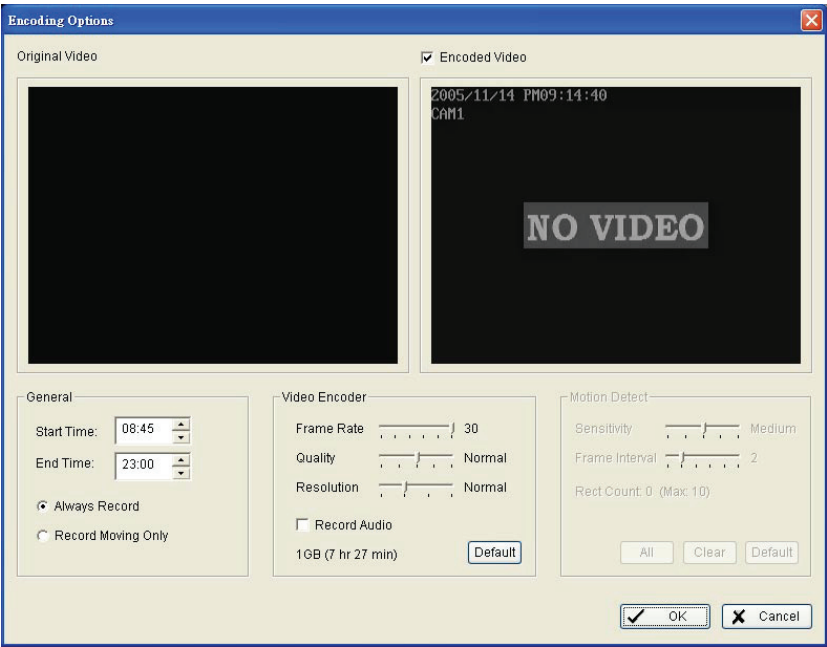
Option 2: Click the **Configure** icon or double click **schedule information** on the screen (highlighted in blue), get **Encoding Options** panel and change the setting that you want to.

Note: The time schedule setting is based on 15 minutes.

You may setup the schedule for each channel/camera by repeating the process above or applying the setting of a camera to all other cameras.



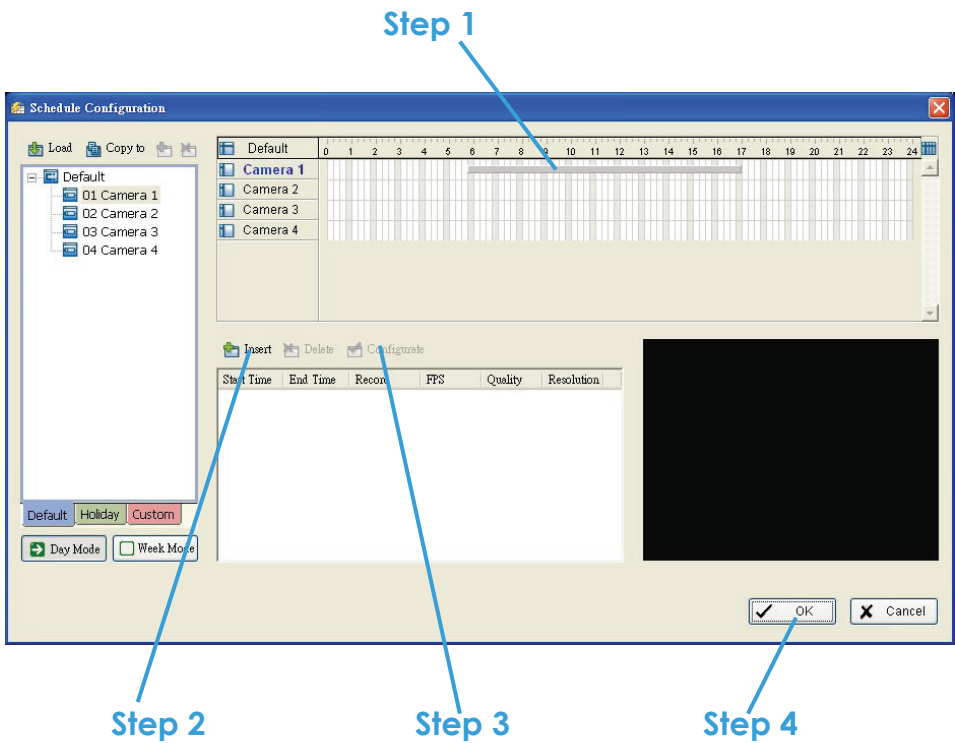
Encoding Options Panel



Schedule

To insert a new schedule manually

Step 1: Left-click and draw the length you want on time table. The scheduled time will show as a grey bar.

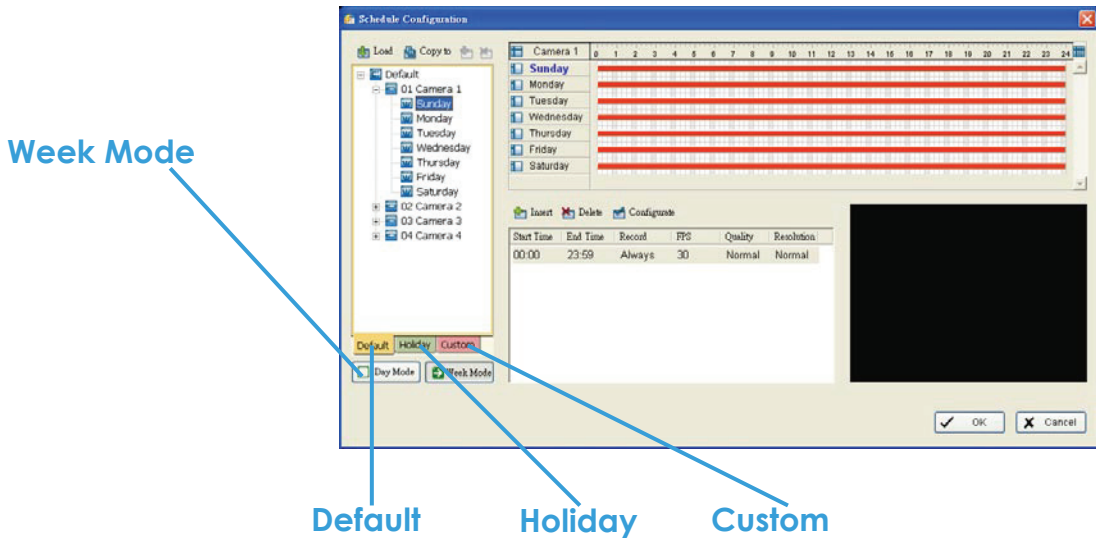


Step 2: Click on the **Insert** icon and add a new schedule with the setting of Regular Mode, that is, to record video during the time period you set with 30 FPS, Normal video quality and Normal resolution.

Step 3: Change the setting if you want, by click on the **Configure** icon or double click the **schedule information**.

Step 4: Click OK.

Schedule



Week Mode: Schedule the cameras for each day of the week differently. In addition, you may appoint extra holidays in Week Mode.

Default: Follow the same process to setup the schedule for every day in a week.

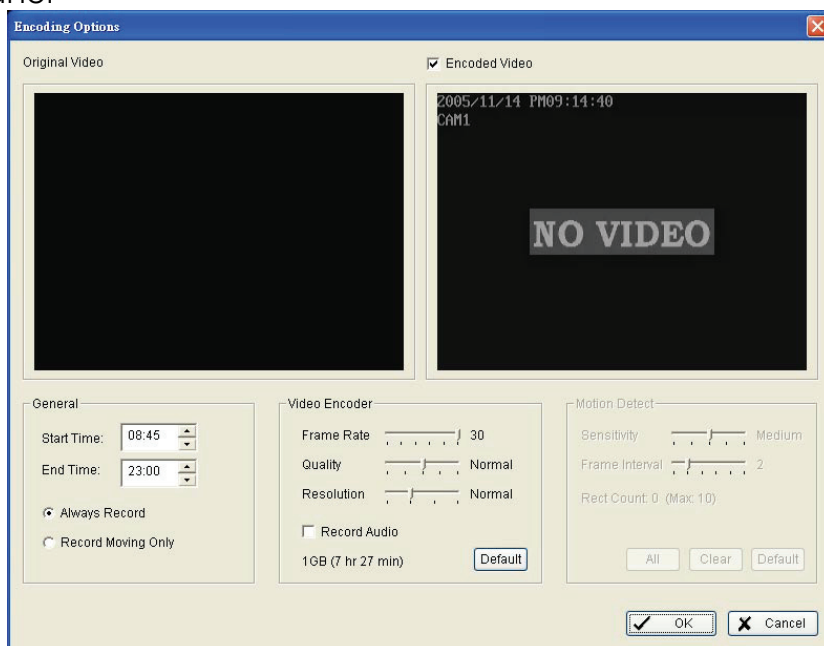
Holiday: You may appoint Holiday(s) on which the system will work as the setting of Sunday.

Custom: Or you can appoint a particular date(s) on which the system will work on a special schedule different from the others.

To insert a new schedule manually

You can also setup schedules manually in Week Mode by following the same process as in Day Mode.

Encoding Options Panel



The setting of a schedule can be adjusted in **Encoding Option** panel.

General: Setup Start Time and End Time, select the recording mode from either Always Record or Record Moving Only which may save storage space.

Motion Detect: When selecting Record Moving Only, you may change the detection area by drawing a square on the Original video screen (the default setting is to detect the entire screen.) You can also adjust the Sensitivity and Frame Interval here.

Video Encoder: You can adjust the Frame Rate (from left to the right to increase the value), the Quality (move to the right to increase the value) and the Resolution of the image. Higher Quality and higher resolution means better details of image, in the mean while, it will occupy more storage space. Check the box of Encoded video to see the preview and find your balance between storage space and image quality.

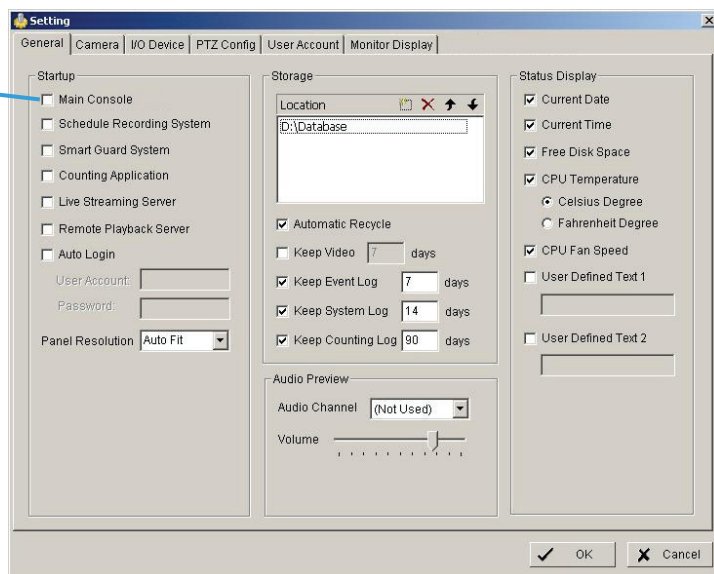
Encoded Video: Check and see the preview of your setting.

Configuration



Click the Config icon, selection from the pull-down menu and open the Configuration panel.

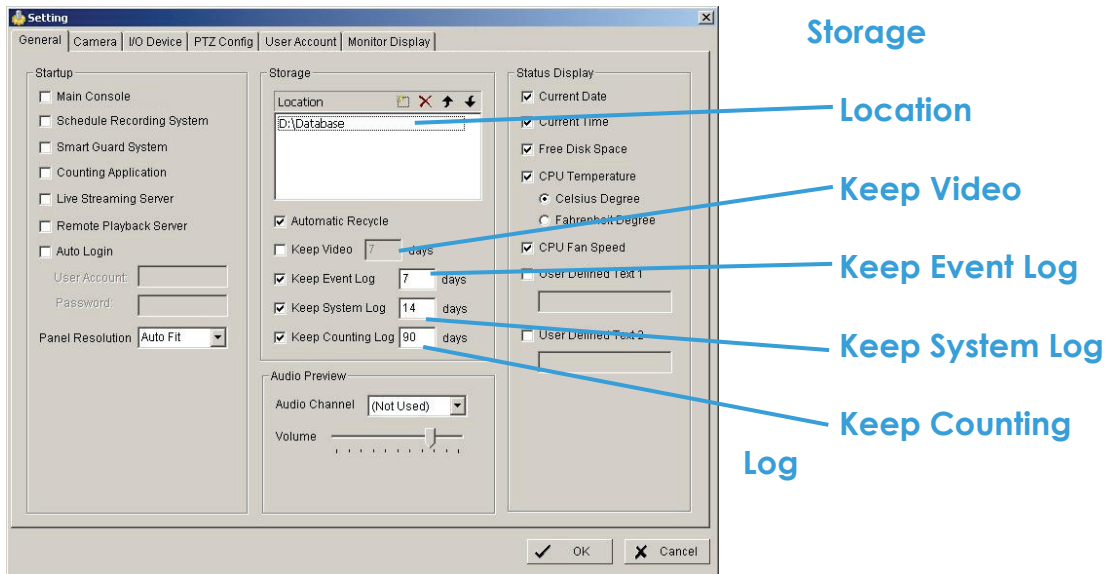
Startup



Startup: Check the box and activate the functions as the system starts. You may start/stop the function in Monitor panel on the Main Console.

Live Viewer

Setting – General



Storage:

Location: Assign the path and folder in which the system saves the files.

Automatic Recycle: The system will automatically delete out-dated data and save storage space.

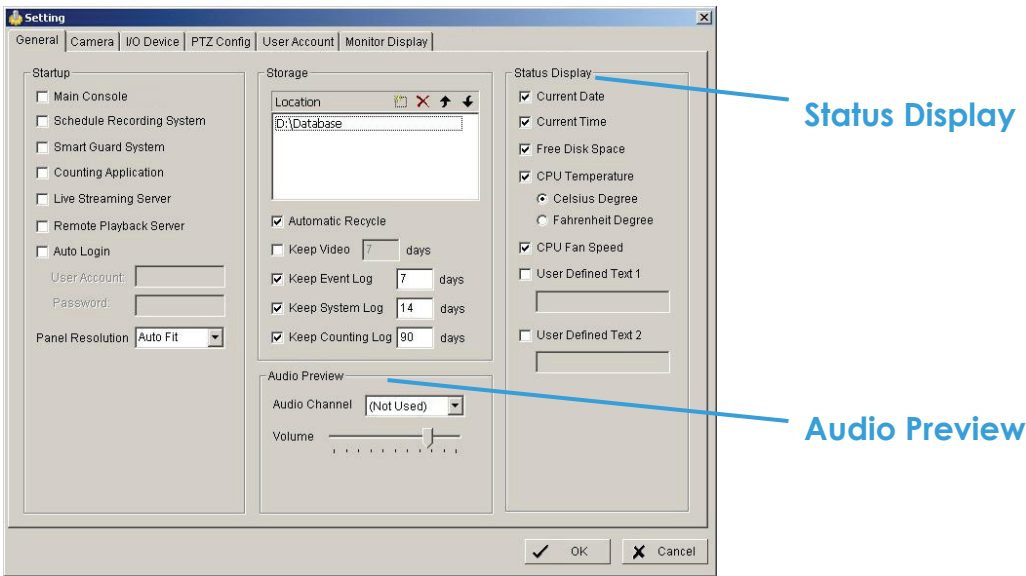
Keep Video: Deletes the video records older than the number of days you set.

Keep Event Log: Deletes the event log data older than the number of days you set.

Keep System Log: Deletes the system log data older than the number of days you set.

Keep Counting Log: Deletes the counting application data older than the number of days you set.

Live Viewer
Setting – General

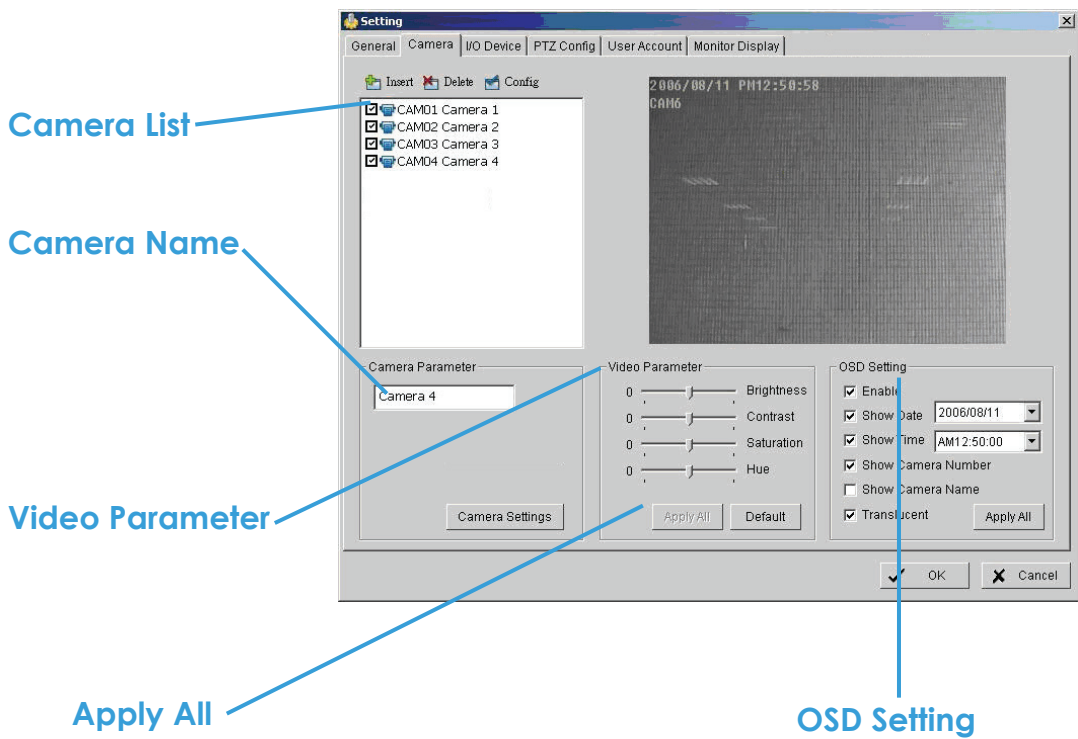


Audio Preview: Assign the audio channel to preview and the sound volume.

Status Display: Select which information you want to show on the information-display on Main Console.



Live Viewer Setting - Camera



Camera List: The camera(s) connected to the system will show on the panel, click the name of the camera and then you may adjust the setting of it.

Camera Name: Name the camera for your convenience.

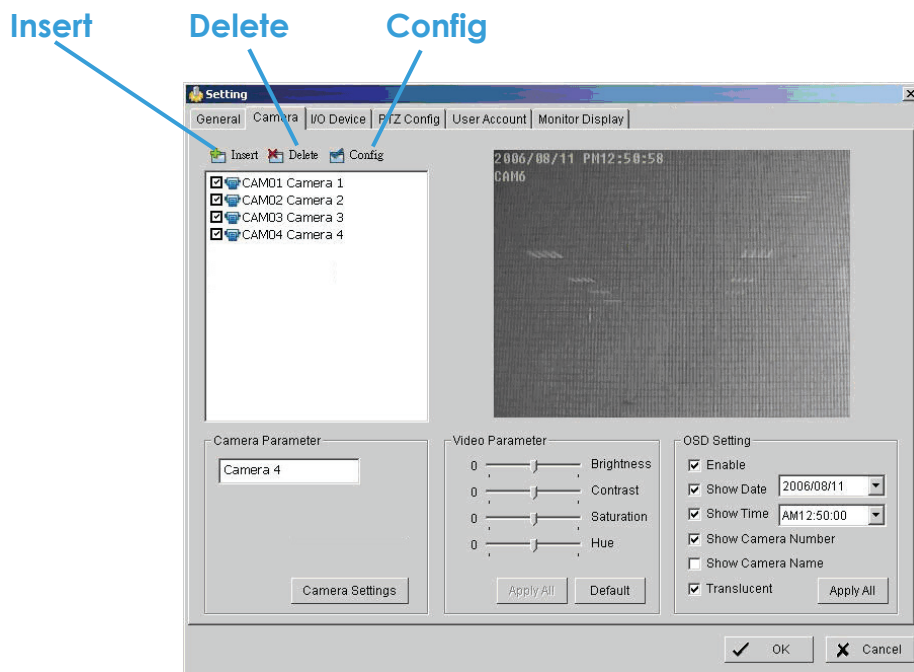
Video Parameter: Adjusts brightness, contrast, saturation, and color hue.

Apply All: Click to apply the setting to all the cameras.

OSD Setting: Select what you want to put in the On Screen Display, showing on the sub-screen of the camera.

Live Viewer

Setting - IP Camera



Three function buttons will be included in the Setting/Camera panel if you have our Hybrid Surveillance System license for IP camera using.

Insert: Click and the IP/Video Server Setting panel will pop up. You can add an IP camera in the system with the Setting panel. See next page for detail.

Delete: Click and delete the selected IP camera(s), click OK and then the IP camera(s) will be removed from the system.

Config: Click and the IP/Video Server Setting panel will pop up. You can modify the IP camera settings with the Setting panel. See next page for detail.

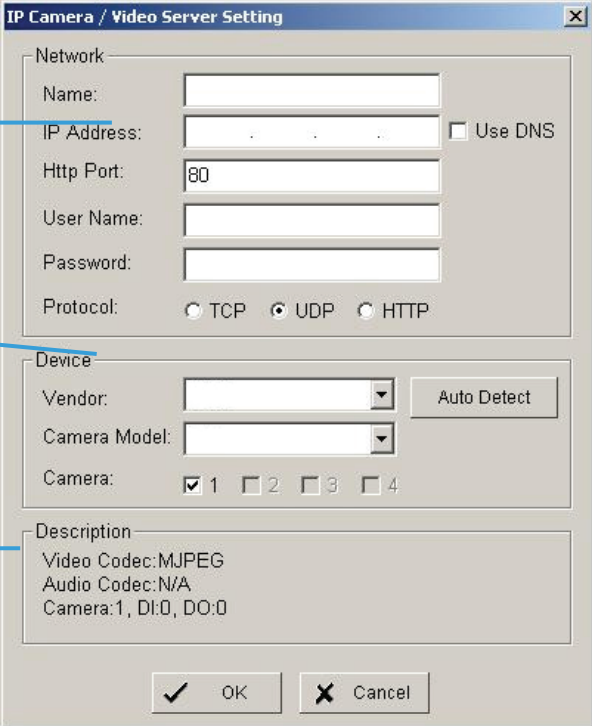
Live Viewer Setting - IP Camera

IP/Video Server Setting panel

Network

Device

Description



The image shows a Windows-style dialog box titled "IP Camera / Video Server Setting". It is divided into three sections: "Network", "Device", and "Description".

- Network Section:** Contains fields for "Name:", "IP Address:", "Http Port:" (with "80" entered), "User Name:", and "Password:". There is a checkbox for "Use DNS" and a "Protocol:" section with radio buttons for "TCP", "UDP" (selected), and "HTTP".
- Device Section:** Contains a "Vendor:" dropdown menu, a "Camera Model:" dropdown menu, and a "Camera:" section with four checkboxes labeled "1", "2", "3", and "4". Checkboxes "1" and "2" are selected. There is an "Auto Detect" button.
- Description Section:** Displays read-only information: "Video Codec: MJPEG", "Audio Codec: N/A", and "Camera: 1, DI: 0, DO: 0".

At the bottom of the dialog are "OK" and "Cancel" buttons.

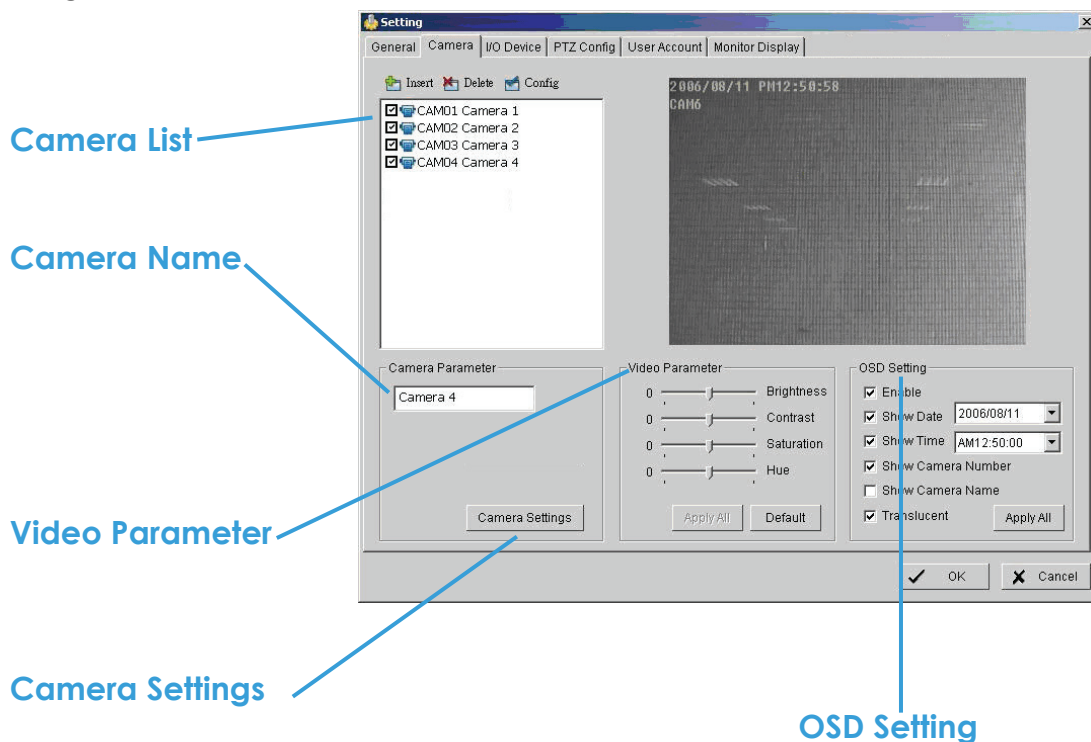
Network: Fill up the Network field (including Name, IP Address, Http Port, User Name, Password and Protocol) referring to the instruction provided by the manufacturer. Check "Use DNS" to use domain name instead of IP address.

Device: Choose the manufacturer of the IP camera from the pull-down menu. Click on "Auto Detect" and the model name will be shown in the box.

Description: Shows information of the IP camera.

Live Viewer

Setting – IP Camera



Camera List: The camera(s) connected to the system will show on the panel, click the name of the camera and then you may adjust the setting of it.

Camera Name: Name the camera for your convenience.

Camera Settings: Set the camera parameter offered by camera vendor.

Video Parameter: Adjusts brightness, contrast, saturation, and color hue.

OSD Setting: Select what you want to put in the On Screen Display, showing on the sub-screen of the camera.

Live Viewer Setting - I/O Device

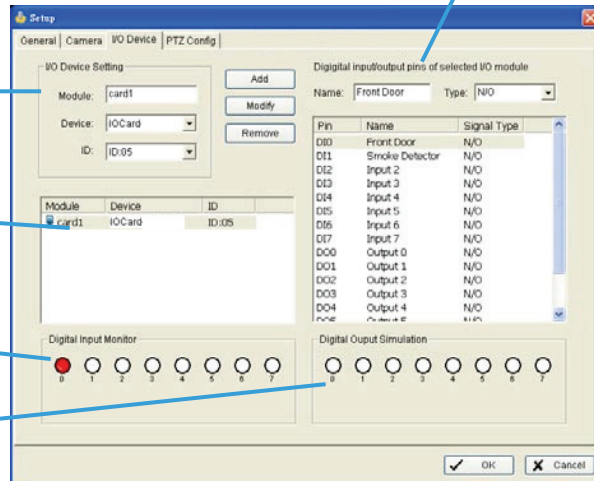
Device Setting

Module Setting

List of devices

Input Monitor

Output Monitor



Module Setting: To name the module device and ID connecting the digital input/output device(s) to your system.

I/O Devices: Shows the device(s) installed to the system.

ID: Select the number of the I/O port to which you plug the ribbon cable.

Input Monitor: Trigger the digital input device and the related icon will light-up. To check if the device is correctly connected or not.

Output Monitor: Click on the icon and trigger the digital device connecting to your system to test if it is correctly connected.

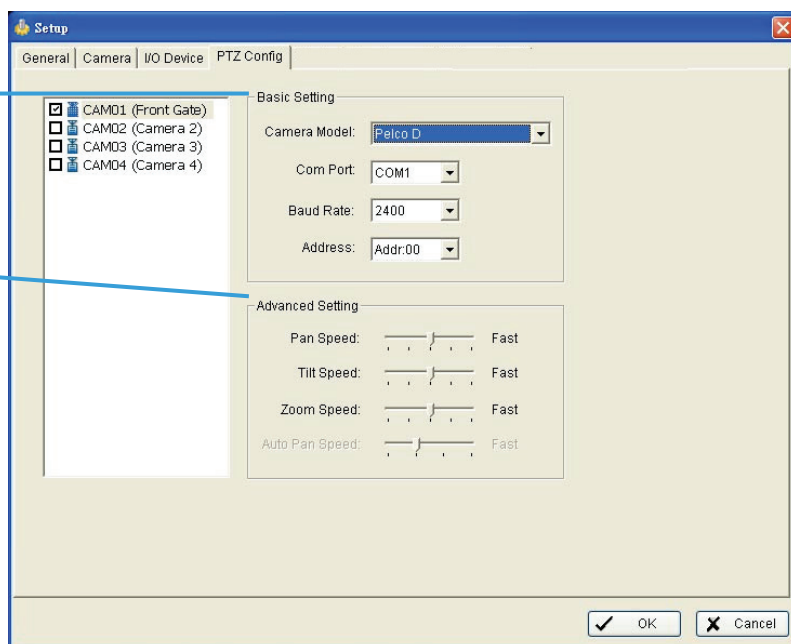
Device Setting:

Name: To name the device (input and output).

Type: To select from the pull-down menu. **N/O** means that the digital signal is **Open** in normal condition; **N/C** mean that the signal is **Close** in normal condition.

Basic Setting

Advanced Setting



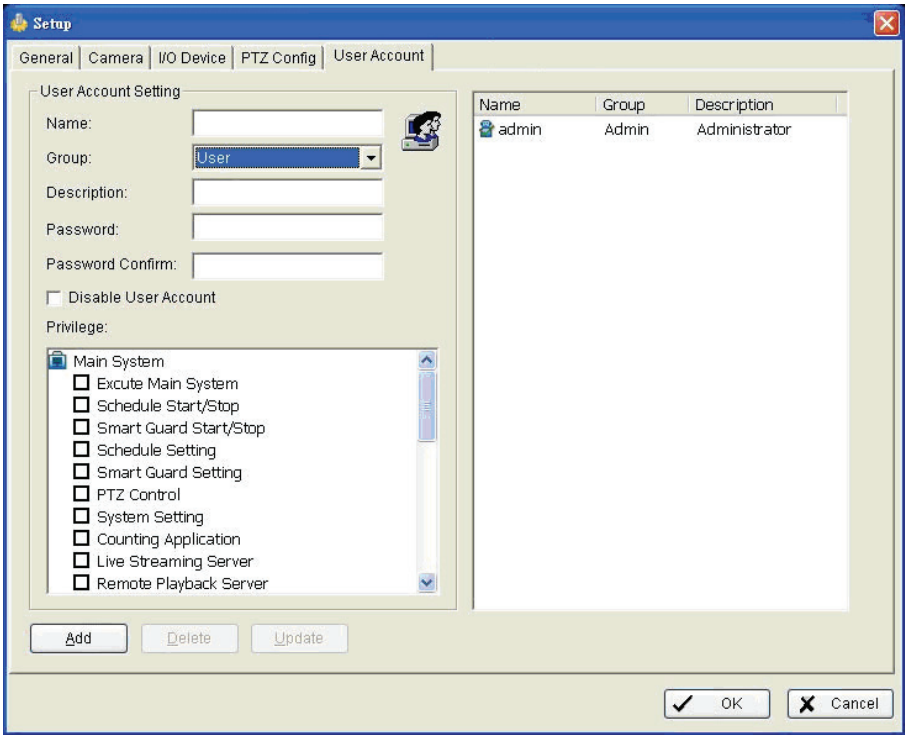
Install the PTZ camera following the instruction of the manufacturer. The PTZ camera is usually connected to the PC with RS-485/RS-422.

Check the box on the camera list to activate the PTZ control function of a PTZ camera.

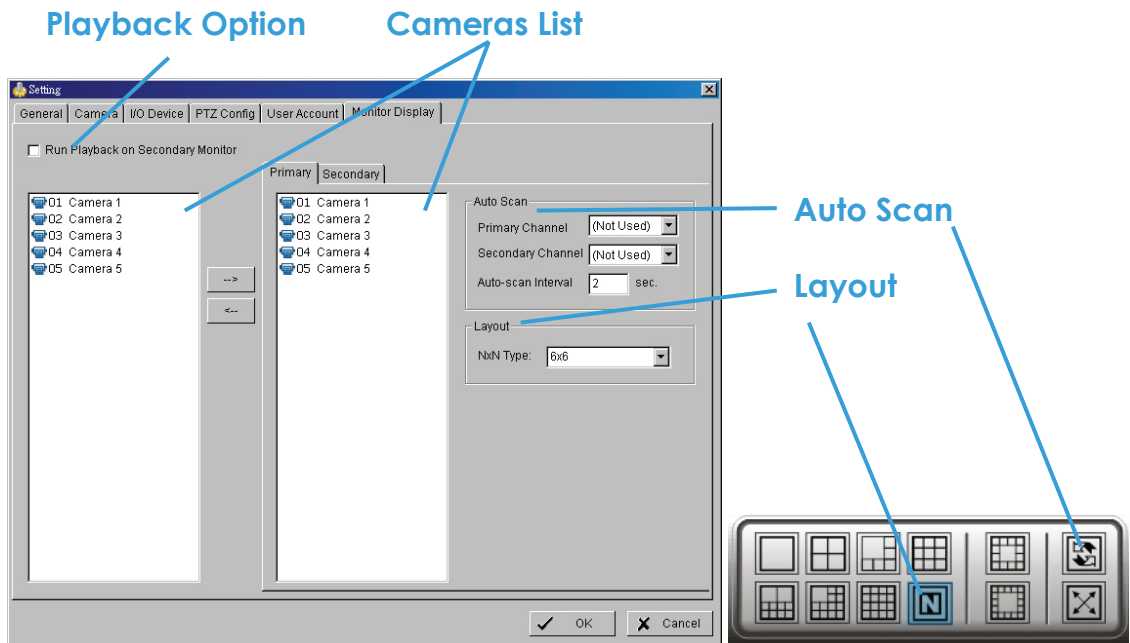
Basic Setting: Select the Camera Model, Com Port, Baud Rate, and Address according to your PTZ camera.

Advanced Setting: You may setup the Pan Speed, Tilt Speed, Zoom Speed and Auto Pan Speed.

Live Viewer
Setting - User Account



User Account: Manage user accounts here. Highlight the account on the list at the right and then you can change the Privilege setting by check and un-check the box of each function.



Playback Option: Execute Playback on the secondary monitor.

Cameras List: Show all cameras on the left list. You may setup cameras shown on Primary monitor in the right window.

Auto Scan: Choose Auto Scan to rotate the channels / cameras on the screen.

For instance, you select the Screen Division mode to show only 4 sub-screens on the Main Console while having 16 channels connecting to the system. Use the Auto Scan function and then you are able to see all the 16 channels showing by turns. You can also setup a Primary Channel to keep it always on the screen.

Layout: Choose the number of divisions for NxN division on the Main Console screen.

Live Viewer

Log Viewer

Step 1

Step 2

Event Time	Event Type	Description
2005/11/11 21:39:44	Start Live Streaming Server	
2005/11/11 21:39:45	Start Remote Playback Server	
2005/11/11 21:40:50	Modify Smart Guard	
2005/11/11 21:41:15	Start Smart Guard	
2005/11/11 21:42:39	Stop Smart Guard	
2005/11/11 23:10:11	Stop Live Streaming Server	
2005/11/11 23:10:11	Stop Remote Playback Server	

Step 3

System Log: You can choose the **Log Type** from the pull-down menu, including:

Console Startup, Console Shutdown, User Login, User Logout, Start Schedule, Stop Schedule, Execute Recycle, Execute Backup, Enable Channel, Disable Channel, Start Smart Guard.

Step 1: Choose the type of event you want to check or select "All" on the pull-down menu for all types of events.

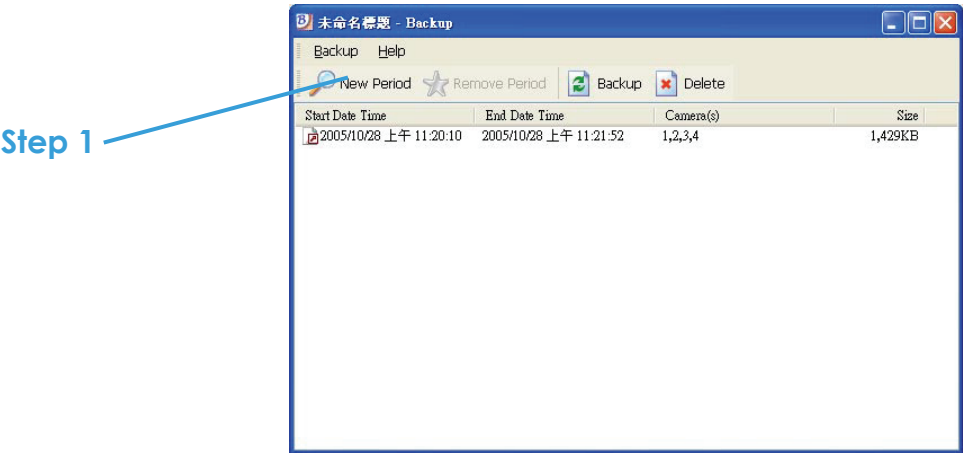
Step 2: You can either view the events on a particular date or during a given time period. To search and view Unusual Event on a particular date, check the box right next to **Date** and indicate the date you want to check. You may also point out two different time points and search for Unusual Event between them. Mark the box in the **Date & Time** column and then enter the date and time.

Step 3: Click **Search**.

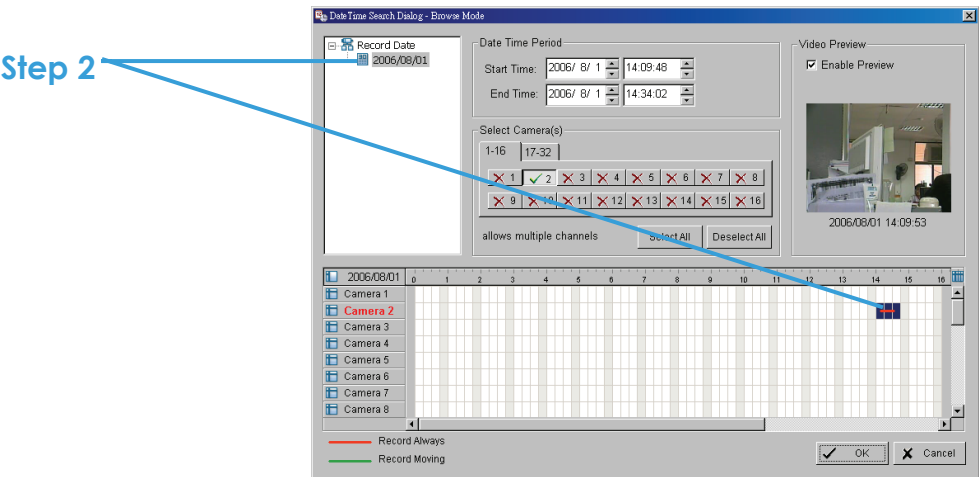
Live Viewer

Backup

The **Backup Till** function saves video record and the other log information. You can open the Backup file on any PC with Windows OS and have the full function Playback panel on it.

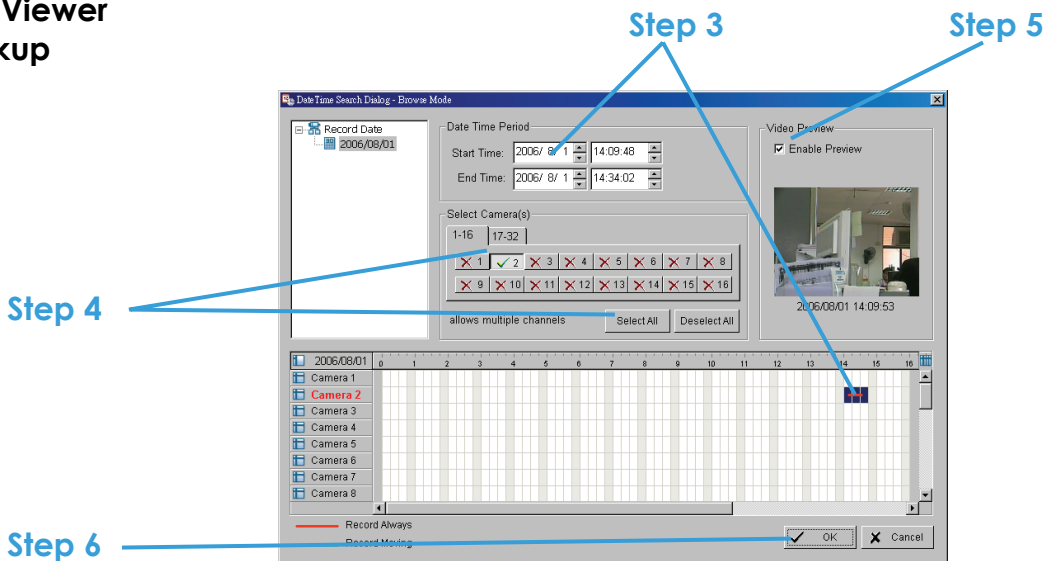


Step 1: Click **New Period** to get the Backup panel to add a new time period you want to backup.



Step 2: From the window at the top left, select the date you want to backup from, and you will see red/green lines show on the time table implying available data recorded.

Live Viewer Backup



Step 3: You can select the data you want to backup by left-clicking and dragging to high light the time period. Besides using the time-table, you may indicate the time period of the data you want to backup by using Start Time and End Time in Date Time Period section.

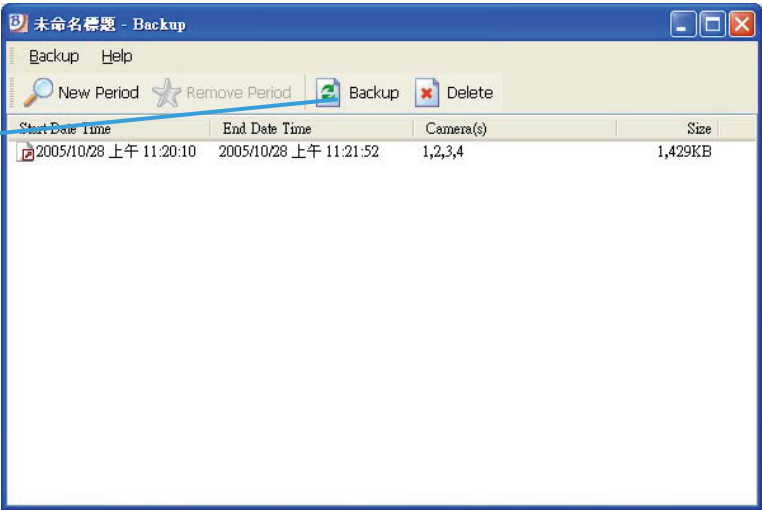
Step 4: You can click on the camera number icon to add the camera(s) or click Select All to add all the cameras.

Step 5: Check the box of Enable Preview to get the preview of the video you select.

Step 6: Click OK when it is done and go back to the Backup panel.

Live Viewer
Backup

Step 7



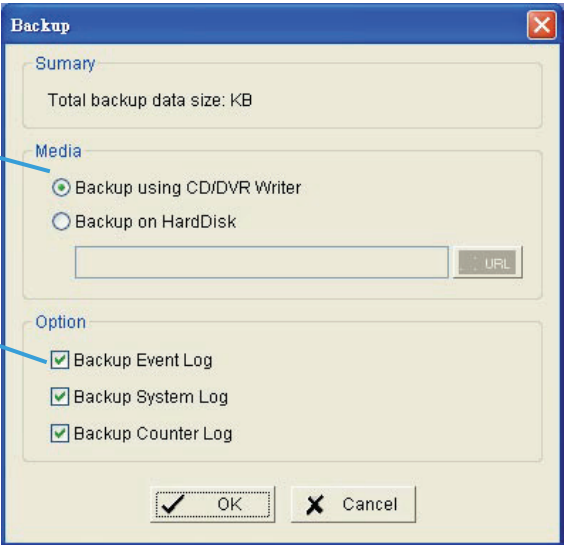
Step 7: Click the **Backup** icon and you can see the size of the file.

Step 8: Choose the path you want to save the file or, burn the file into a CD (direct CD burning for Windows XP only).

Step 9: Select which log information you want to backup (Event Log, System Log and/or Counter Log) and then click OK.

Step 8

Step 9



Live Viewer**Erase recorded information from the system**

Step 1: Click New Period to get the Backup panel to add a new time period you want to erase all the data recorded.

Step 2: From the window at the top left, select the date you want to remove from, and you will see red/green lines show on the time table implying available data recorded.

Step 3: You can select the data you want to erase by left-clicking and dragging to highlight the time period. Besides using the time-table, you may indicate the time period of the data you want erase by using Start Time and End Time in Date Time Period section.

Step 4: In Select Camera(s) section, select the camera(s) from which you want to erase or select all the cameras by clicking Select All button.

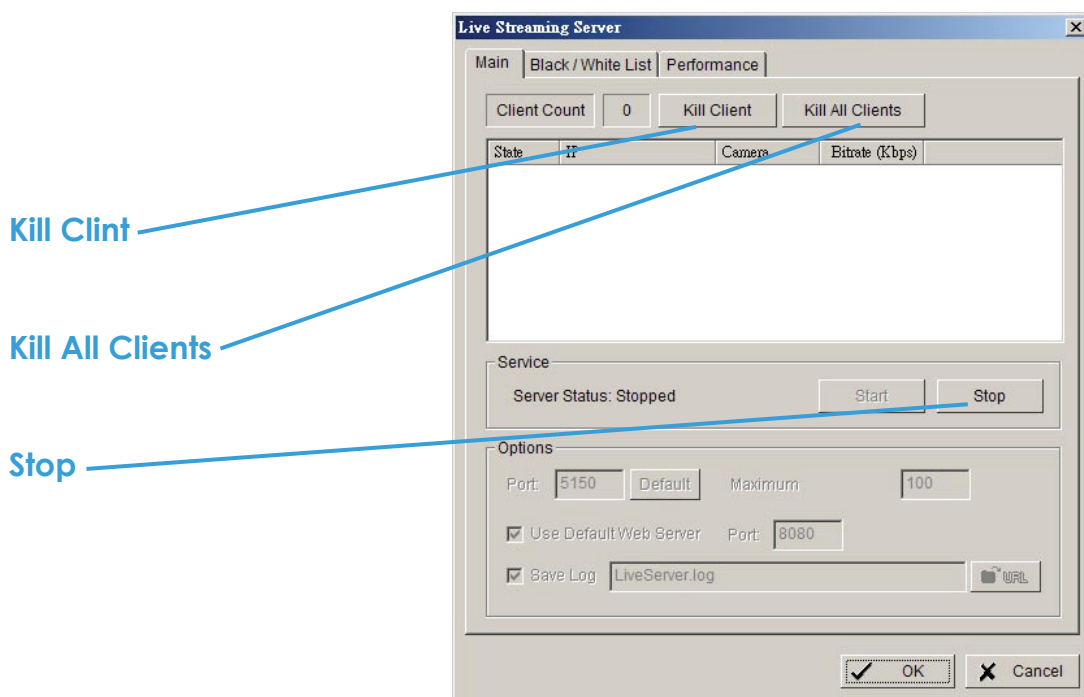
Step 5: Check the box of Enable Preview to get the preview of the video you select.

Step 6: Click OK when it is done and go back to the Backup panel.

Step 7: Click on the Delete icon and erase the data.

Live Viewer

Live Streaming Server – Main

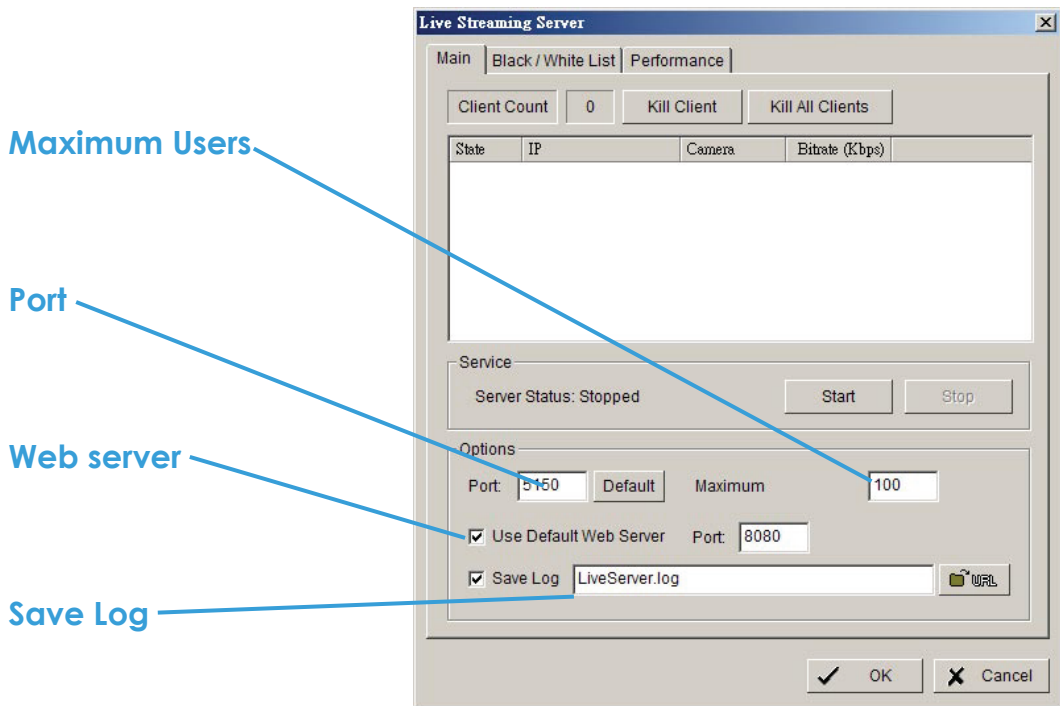


On Live Streaming Server panel, you can see the clients who are logging on your computer and watching the live video from the remote side.

Kill Clint: Highlight the IP and click Kill Client to block the client from your system.

Kill All Clients: Block all the clients logging to your system.

Stop: To stop broadcasting live stream video.

Live Viewer**Live Streaming Server – Main**

Options: You can adjust the configuration when the Server is stopped.

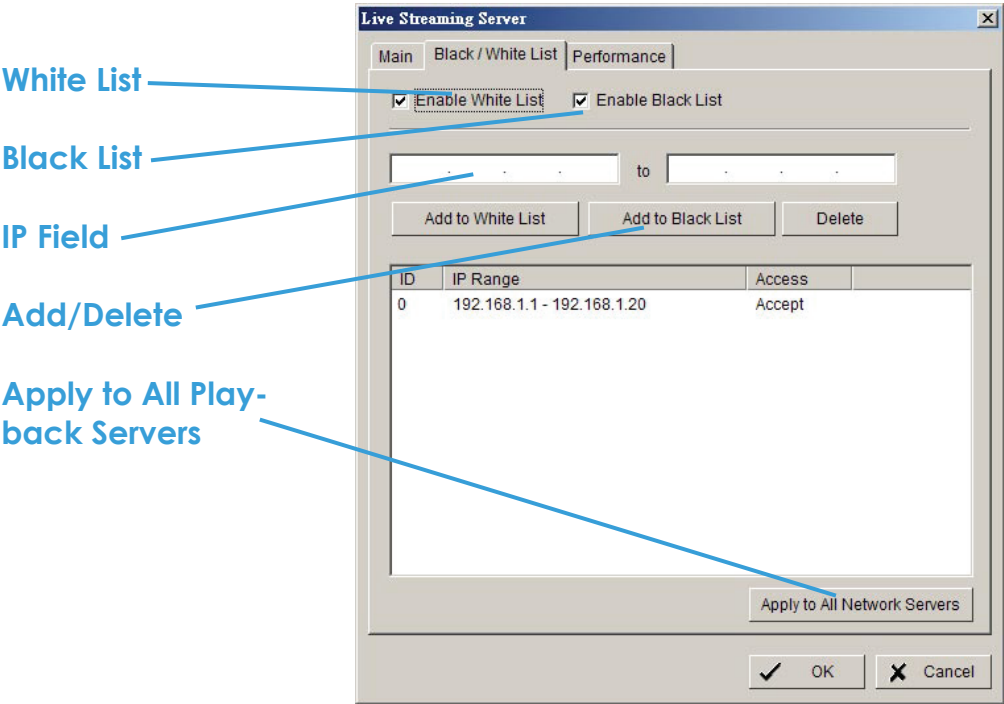
Port: Assign the network port you want the clients to connect to your system.

Use Default Web Server: Check the box and activate Web Server, so that the clients will be able to watch live video on Internet Explorer. The port is set to 80 by default.

Maximum Users: Number of connections that are allowed to connect to your system. One camera video counts as one connection.

Save Log: Appoint the folder and save the log information there.

Live Viewer
Live Streaming Server - Black/White List



White List: Check the box to activate White List filter. Only IPs from the White List are allowed to log-in.

Black List: Check the box to activate Black List filter. IPs from the Black List will be blocked.

IP Field: Enter IP into the IP field on the left; or enter 2 sets of IP to indicate a series of IPs.

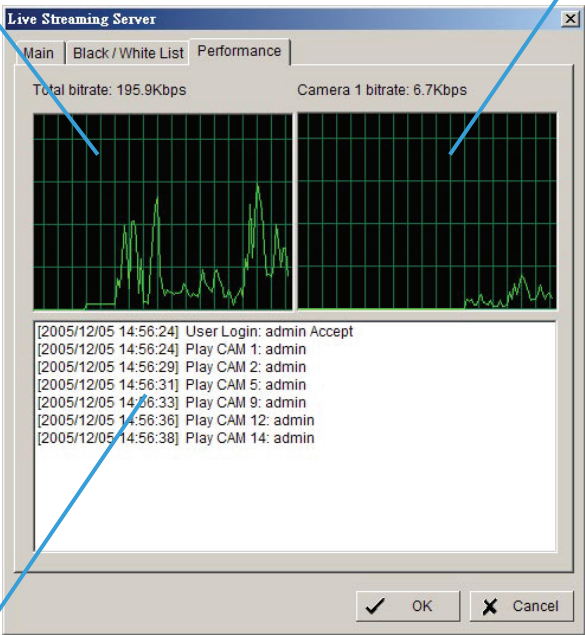
Add/Delete: To Add the IP(s) onto the list or remove it from the list.

Apply to All Playback Servers: To apply the setting to all the servers.

Live Viewer
Live Streaming Server – Performance

Total bitrate

Individual Camera bitrate



Live Streaming Server log information

Live Viewer



On Live Viewer console, you can watch the video from remote live streaming server(s).

Live Viewer



Click on Setup icon to start the **Setup** panel

Enter the name of the Server

Enter the IP of the Server

Connecting port of the Server

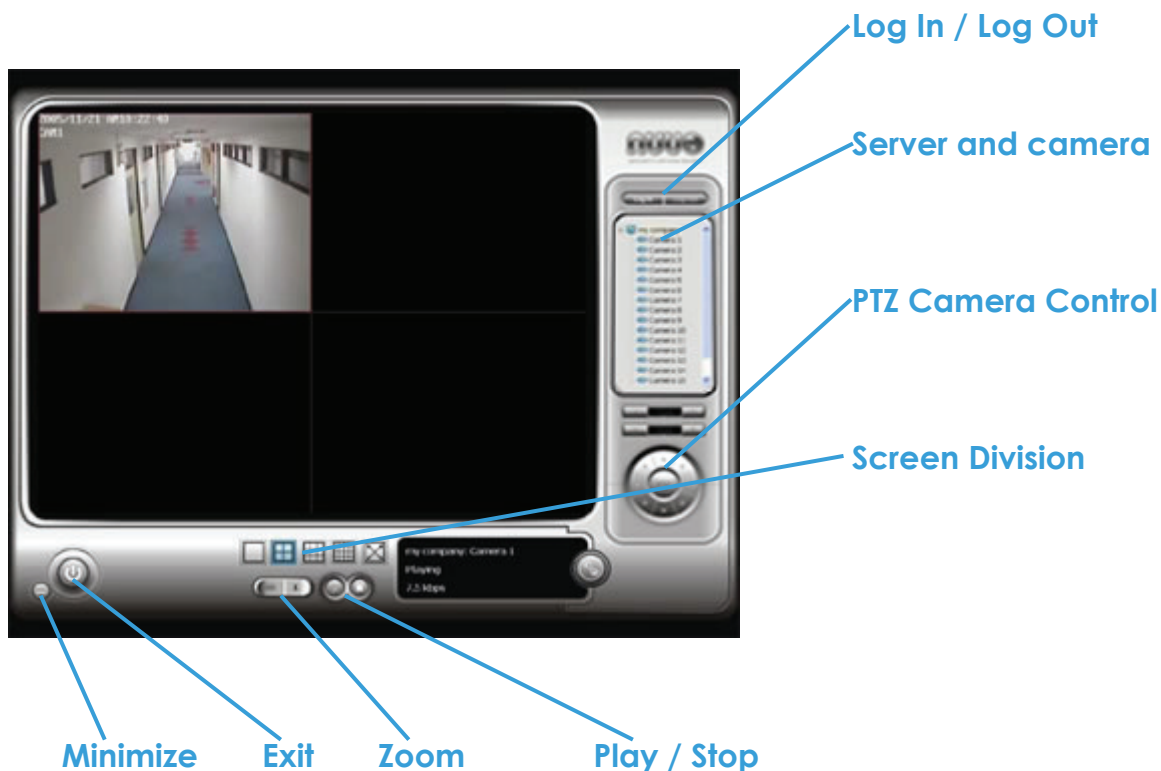
Enter your user name and password

Check the box and automatically log-in the server when starting Live Viewer

The image shows the 'Setup' dialog box. It has a title bar with 'Setup' and a close button. The main area is titled 'Server Setting'. It contains several input fields: 'Server Name' (with 'My Office' entered), 'Address' (with '142.300.300.300' entered), 'Port' (with '5150' entered), 'User Name', and 'Password'. There are also two checkboxes: 'Save Password' and 'Auto Login', both of which are currently unchecked. A 'Test Server' button is located below the 'Auto Login' checkbox. At the bottom left are 'Add', 'Delete', and 'Update' buttons. At the bottom right are 'OK' and 'Cancel' buttons. A blue arrow points from the 'Add' button to the 'Add' button in the next image.

Click **Add** and the sever will show up on the list

Live Viewer



Select the camera from the server, hold the left click and drag the camera to where you want to put the image.

You can right click the camera on the list to connect/disconnect it.



Log In / Log Out: Select the server and click **Log In / Log Out** icon to log-in / log-out the server or you can right click the sever on the list to log-in and log-out.

Play / Stop: Select a camera/video and click **Play / Stop** to play/stop the particular channel.

Live Viewer



IP of the server: Open an Internet Explorer and enter the IP number of the server followed by the connecting port.
Example: `http://192.168.1.16:8080/`

Connect / Disconnect: Select the camera from the server, hold the left click and drag the camera to where you want to put the image, or double click the camera on the list to connect it.

Select the camera on screen or on the list and click the **Disconnect** icon to disconnect the camera.

Play / Stop: Select a camera/video and click **Play / Stop** to play/stop the particular channel.